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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/940,519	08/29/2001	Xiaoming Gu	280/50357	5214
7590	06/18/2004		EXAMINER	
CROWELL & MORING LLP P.O. Box 14300 Washington, DC 20044-4300			WILLIAMS, ERIC M	
			ART UNIT	PAPER NUMBER
			3681	

DATE MAILED: 06/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/940,519	GU, XIAOMING
Examiner	Art Unit	
Eric M Williams	3681	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 28 April 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 3-7 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 3-7 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.
 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. 06/10/2004.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION

1. This action is in response to the papers filed 04/28/2004 for serial number 09/940,519.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 3-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 7, Applicant recites, "at least two separator plates are completely separate from each other and can freely move independently of each other." This recitation is indefinite because it is unclear whether Applicant is intending to claim the disclosed relative axial movement of the separator plates or some other type of relative movement (i.e. rotational or circumferential). Therefore, the scope of the claimed subject matter is rendered unascertainable.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 3 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Savoyard et al. '095.

Savoyard discloses a wet multiplate clutch comprising plural friction plates (2) and plural separator plates Fig. 9 (66, 64), wherein the separator plates are groove free (the separator plates 66, 64 are groove free), wherein between each two friction plates adjacent to each other, at least two of the plural separator plates are disposed (shown in Fig. 2), and the separator plates are completely separate from each other and can freely move independently of each other (the separator plates taught by Savoyard are separate and can freely move independent of each other as evidenced by the space shaper, 68, shown in Fig. 9. The space shaper, 68, permits relative movement between the two separate plates 66,64 and corresponds to the "thin member" recited in claim 3).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Savoyard et al. '095 in view of Yesnik '654.

Savoyard discloses all the limitations of claim 4, but lacks any specific disclosure of the separator plates being coated. Yesnik (Abstract) discloses separator plates being coated Fig. 2 (48) to provide an increased coefficient of friction without increasing the wear. It would have been obvious to one of ordinary skill in the art at the time of this invention to modify the separator plate of Fujioka such that it is coated, in view of Yesnik, for the purpose of providing an increased coefficient of friction without increasing wear.

8. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Savoyard et al. '944 in view of Ueno et al. JP 405231443A.

Savoyard discloses all the limitations of claim 5, but lacks any specific disclosure of the separator plates being machined. Ueno et al. teaches machining separator plates in a wet multiple disk clutch to improve durability (Constitution). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the separator plates of Bauer such that they are machined, in view of Ueno, to improve the durability of the separator plates and the wet multiple disk clutch.

8. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Savoyard et al. '944 in view of Avers '035.

Savoyard discloses all the limitations of claim 6, but lacks any specific teaching of the thickness of the groove-free separator plates between .5 and 1.52 mm. Avers discloses a clutch with a separator plate (24a, 24b) having a thickness between .01 and .09 inches - equivalent to .254 mm and 2.286 mm (abstract) -. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the

separator plates of Bauer such that the thickness is between .5 and 1.52 mm, in view of Avers, to reduce noise and vibration in the clutch.

Response to Arguments

10. Applicant's arguments with have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric M Williams whose telephone number is 703-305-0607. The examiner can normally be reached on Mon. - Fri. from 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A Marmor can be reached on 703-308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



EMW



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